

as specified in paragraph 6–5.1 of NFPA 302.

(f) If the fuel supply line of an LPG or CNG system enters an enclosed space on the vessel, a remote shutoff valve must be installed that can be operated from a position adjacent to the appliance. The valve must be located between the fuel tank and the point where the fuel supply line enters the enclosed portion of the vessel. A power operated valve installed to meet this requirement must be of a type that will fail closed.

(g) The following variances from ABYC A–1 section 1.12 are allowed for CNG:

(1) The storage locker or housing access opening need not be in the top.

(2) The locker or housing need not be above the waterline.

(h) The following variances from NFPA 302 are allowed:

(1) The storage locker or housing for CNG tank installations need not be above the waterline as required by paragraph 6–5.12.1.1(a);

(2) Ignition protection need not be provided as required by paragraph 6–5.4.

Subpart C—Mooring and Towing Equipment

§ 184.300 Ground tackle and mooring lines.

A vessel must be fitted with ground tackle and mooring lines necessary for the vessel to be safely anchored or moored. The ground tackle and mooring lines provided must be satisfactory for the size of the vessel, the waters on which the vessel operates, subject to the approval of the cognizant OCMI.

Subpart D—Navigation Equipment

§ 184.402 Compasses.

(a) Except as otherwise provided in this section every vessel must be fitted with a suitable magnetic compass designed for marine use, to be mounted at the primary operating station.

(b) The following vessels need not be fitted with a compass:

- (1) A vessel on a rivers route;
- (2) A non-self propelled vessel; and

(3) A vessel operating on short restricted routes on lakes, bays, and sounds.

(c) Except on a vessel limited to day-time operations, the compass must be illuminated.

§ 184.404 Radars.

(a) A vessel must be fitted with a Federal Communications Commission (FCC) type accepted general marine radar system for surface navigation with a radar screen mounted at the primary operating station if:

(1) The vessel is self-propelled;

(2) The vessel has an oceans, coastwise, limited coastwise, or Great Lakes route; and

(3) The vessel carries more than 49 passengers.

(b) A ferry that carries more than 49 passengers on a rivers route not within one mile of land must be fitted with a FCC Type Accepted general marine radar system for surface navigation with a radar screen mounted at the primary operating station.

(c) The radar and its installation must be suitable for the intended speed and route of the vessel.

(d) A vessel operated on a short restricted route need not be fitted with a radar if the cognizant OCMI determines that a radar is not necessary due to the vessel's route and local weather conditions.

§ 184.410 Electronic position fixing devices.

A vessel on an oceans route must be equipped with an electronic position fixing device, capable of providing accurate fixes for the area in which the vessel operates, to the satisfaction of the cognizant OCMI.

[CGD 85–080, 61 FR 1002, Jan. 10, 1996, as amended at 62 FR 51358, Sept. 30, 1997]

§ 184.420 Charts and nautical publications.

(a) As appropriate for the intended voyage, a vessel must carry adequate and up-to-date:

- (1) Charts of large enough scale to make safe navigation possible;
- (2) U.S. Coast Pilot or similar publication;
- (3) Coast Guard Light List;
- (4) Tide tables; and